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R. Braumandl , A. Kemper , D. Kossmann
ACM Transactions on Internet Technology (TOIT) November 2003
Volume 3 Issue 4
Accessing and processing distributed data sources have become important factors for businesses today. This is especially true for the emerging virtual enterprises with their data and processing capabilities spread across the Internet. Unfortunately, however, query processing on the Internet is not predictable and robust enough to meet the requirements of many business applications. For instance, the response time of a query can be unexpectedly high; or the monetary cost might be too high if the ...

2 A comparative analysis of fuzzy versus conventional policing mechanisms for ATM networks 80%
Vincenzo Catania , Giuseppe Ficili , Sergio Palazzo , Daniela Panno
IEEE/ACM Transactions on Networking (TON) June 1996
Volume 4 Issue 3

3 Expert system on a chip: an engine for real-time approximate reasoning 77%
M Togai , H Watanabe
Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems December 1986
The role of inferencing with uncertainty is becoming more important in rule-based expert systems (ES), since knowledge given by a human expert is often uncertain or imprecise. We have succeeded in designing a VLSI chip which can perform an entire inference process based on fuzzy logic. The design of the VLSI fuzzy inference engine emphasizes simplicity, extensibility, and efficiency (operational speed and layout area). It is fabricated in 2.5 &mgr;m CMOS technology. The inference engine con ...

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A Zvieli , S K MacGregor , J Z Shapiro

Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems December 1986

This work is concerned with the initial design of an expert system for increasing utilization of evaluations in the social sciences. It is an empiric fact that evaluation findings in the social science have a very low and unpredictable utilization. An expert System for Utilization of Research (SUR) may serve both as a research tool (expert systems research and utilization research) and later as an aid to evaluators in the field. The system will be used to collect and store existing utilizat ...

5 Improving object-oriented methods by using fuzzy logic 77%

Francesco Marcelloni , Mehmet Aksit

ACM SIGAPP Applied Computing Review December 2000

Volume 8 Issue 2

Object-oriented methods create software artifacts through the application of a large number or rules. Rules are typically formulated in two-valued logic. There are a number of problems on how rules are defined and applied in current methods. First, two-valued logic can capture completely neither method developers' intuition nor software engineers' perception or artifact types. Second, artifacts are generally produced based only on a subset of relevant properties. Third, two-valued logic does not ...

6 Fuzzy genetic controllers for the autonomous rendezvous and docking problem 77%

Vijayarangan Gopalan , Abdollah Homaifar , M. Reza Salami , R. W. Dabney , Bijan Sayyarrodsari

Proceedings of the 1995 ACM symposium on Applied computing February 1995

7 A knowledge based model of traffic behavior in freeways 77%

Sanjoy Das , Betty A. Bowles , Chris R. Houghland , Steven J. Hunn , YunLong Zhang

Proceedings of the 1999 ACM symposium on Applied computing February 1999

8 Knowledge representing schemes for planning 77%

Wan-Bih Liaw , Frank M. Brown

Proceedings of the 1992 ACM annual conference on Communications April 1992

An investigation of recent development of planning systems is performed, with emphasis on issues of knowledge representation, and the possible solutions for representing the effects of actions are pointed out.

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